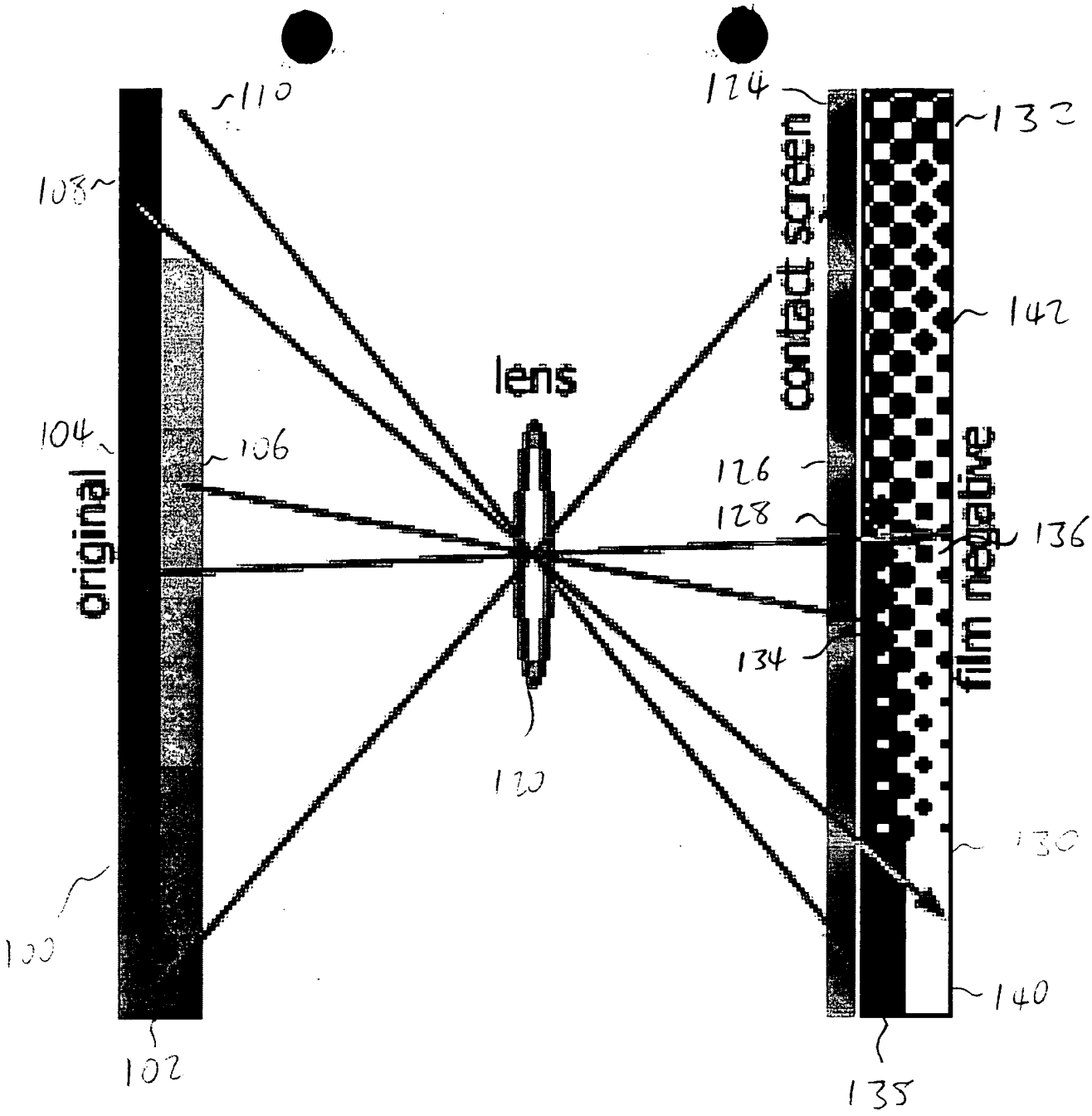
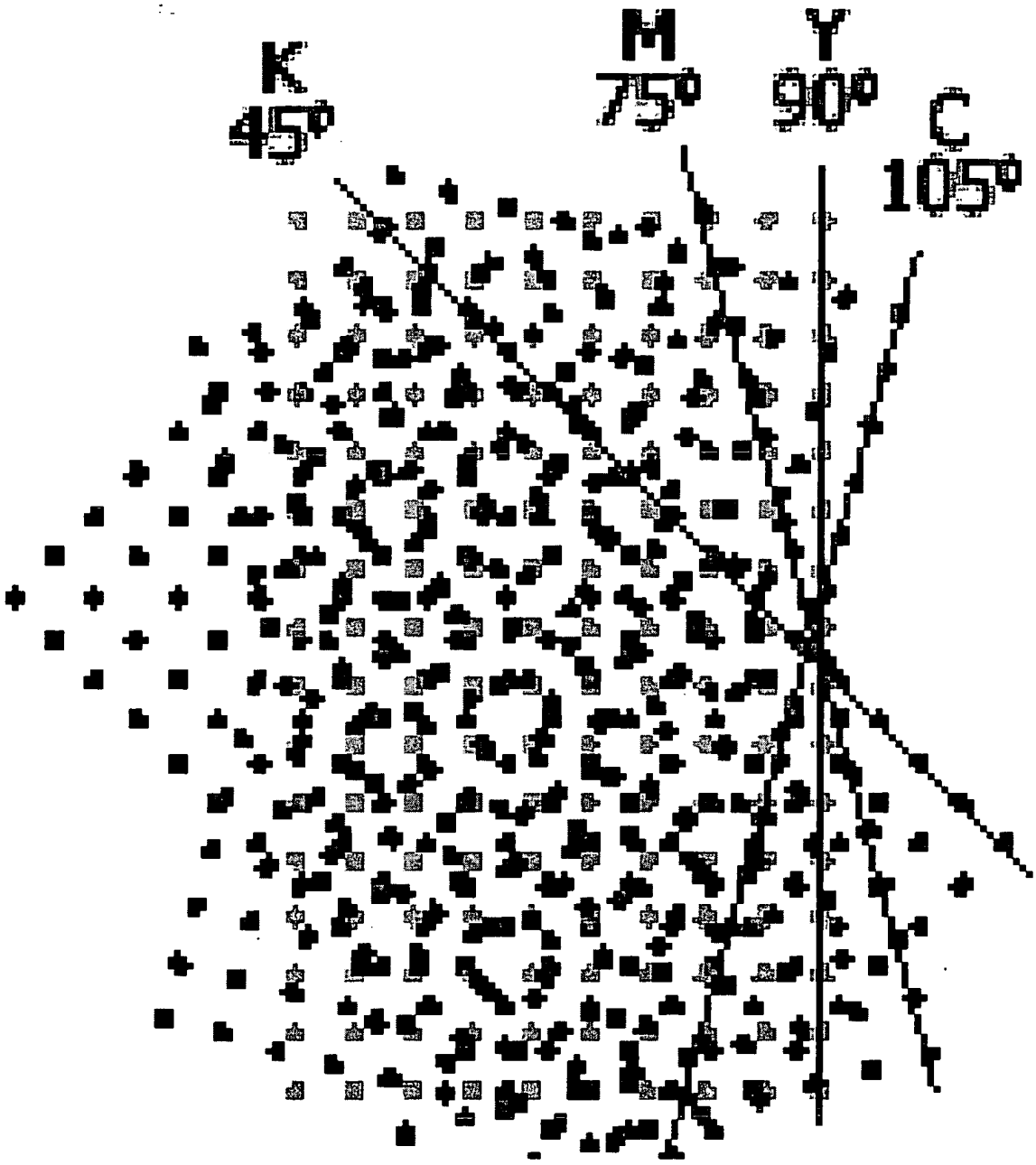

110
124
132
108
contact screen
142
lens
104
106
126
original
128
136
film negative
134
120
130
100
140
102
135

FIGURE 1




Traditional Screen Angles

FIGURE 2

008260 "992960

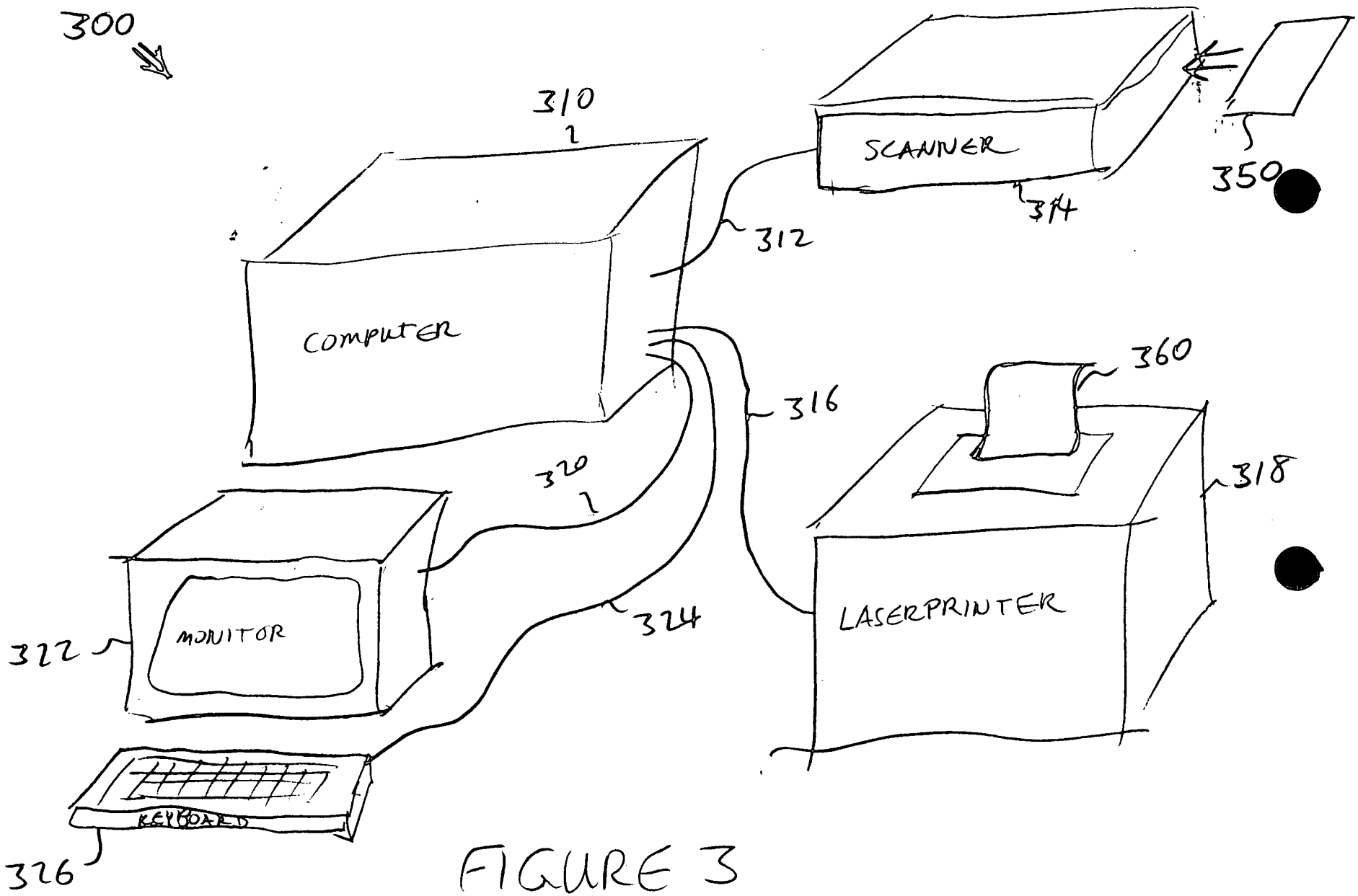



FIGURE 3

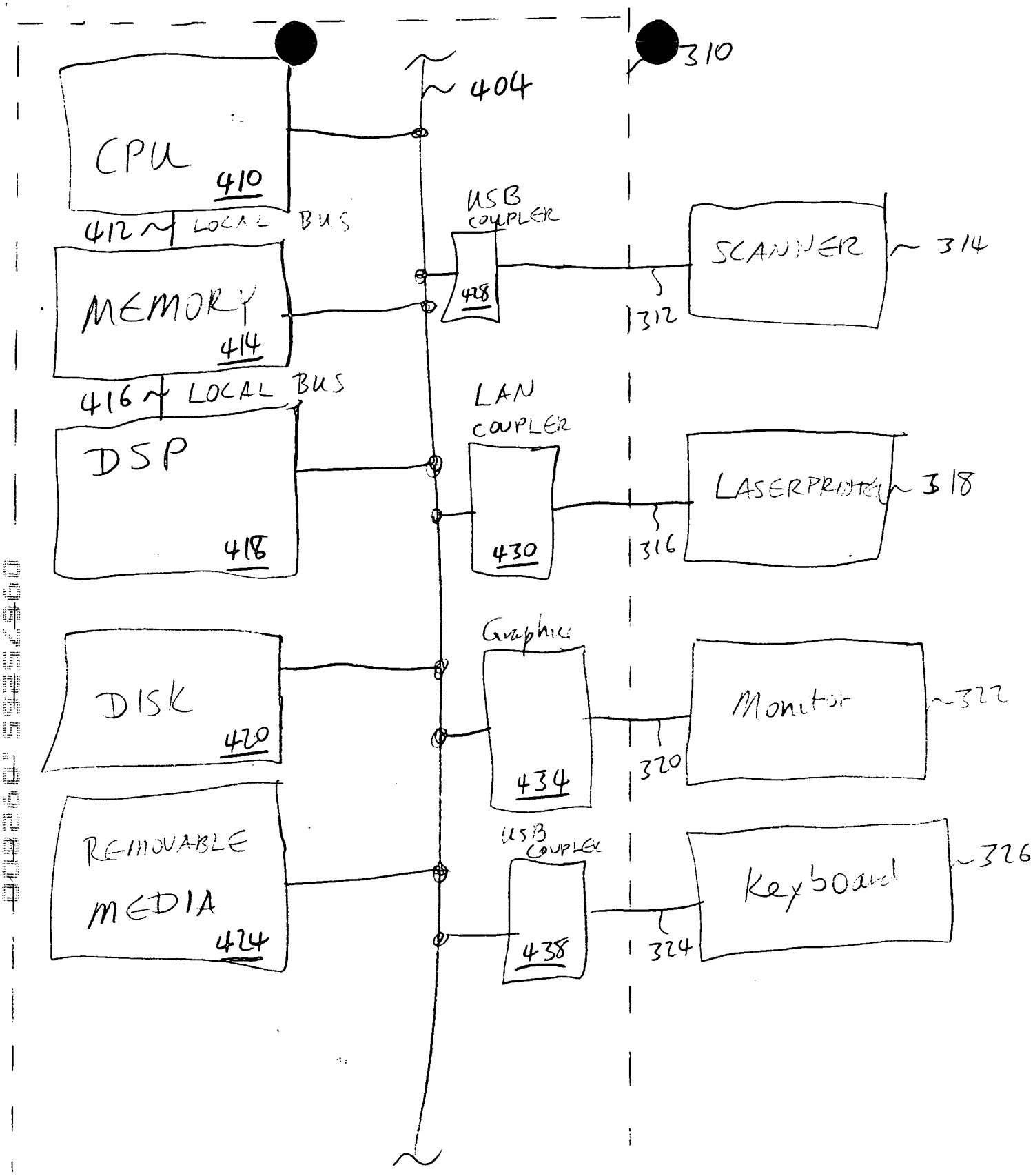

310
404
CPU
410
412
LOCAL BUS
MEMORY
414
416
LOCAL BUS
DSP
418
DISK
420
REMOVABLE
MEDIA
424
USB
COUPLER
428
SCANNER
314
312
LAN
COUPLER
430
LASERPRINTER
318
316
Graphics
434
Monitor
322
320
USB
COUPLER
438
Keyboard
326
324

FIGURE 4

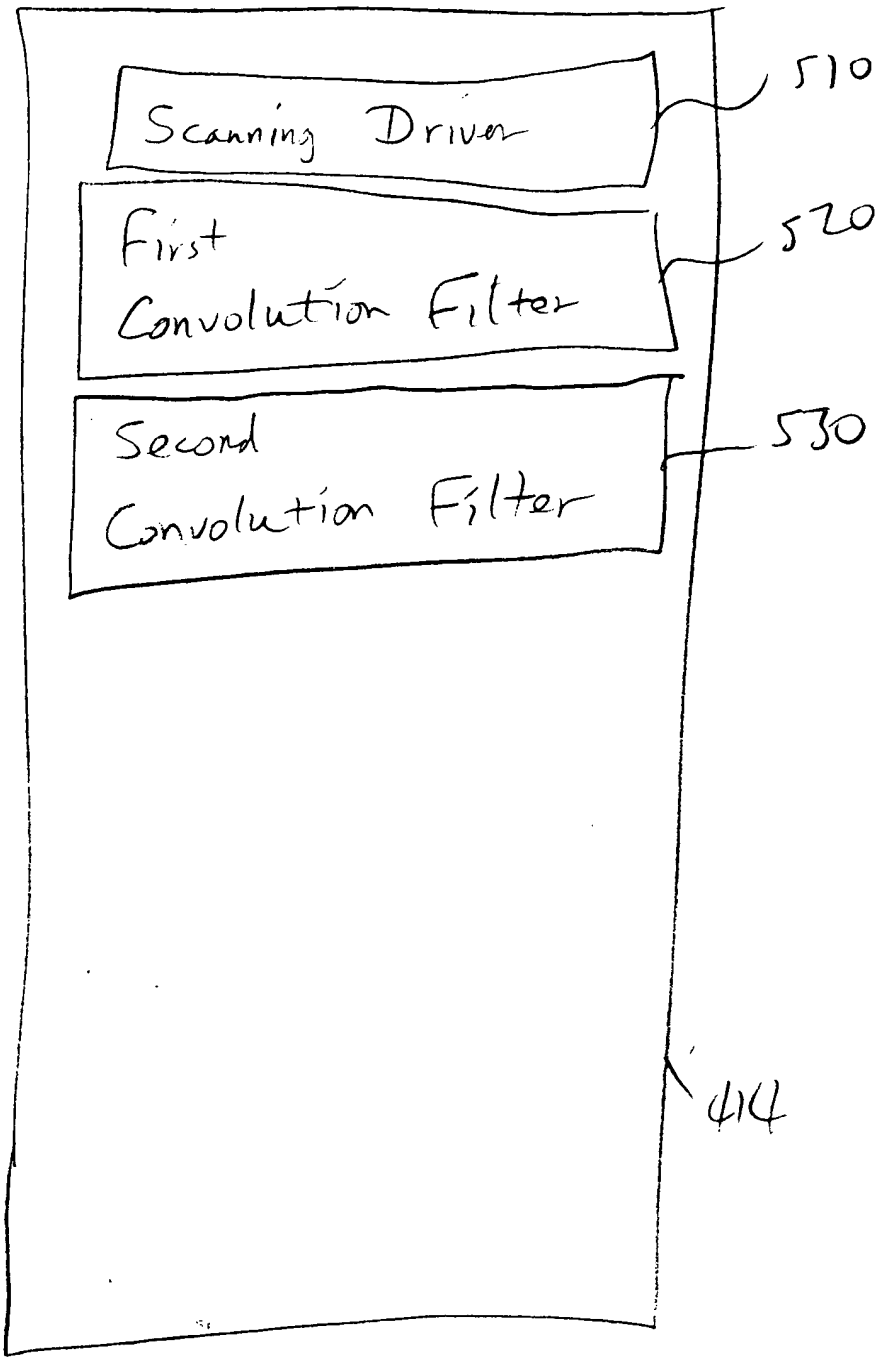

Scanning Driver
510
First
Convolution Filter
520
Second
Convolution Filter
530
414

FIGURE 5

D03260 "99257960
AMPAD
22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS

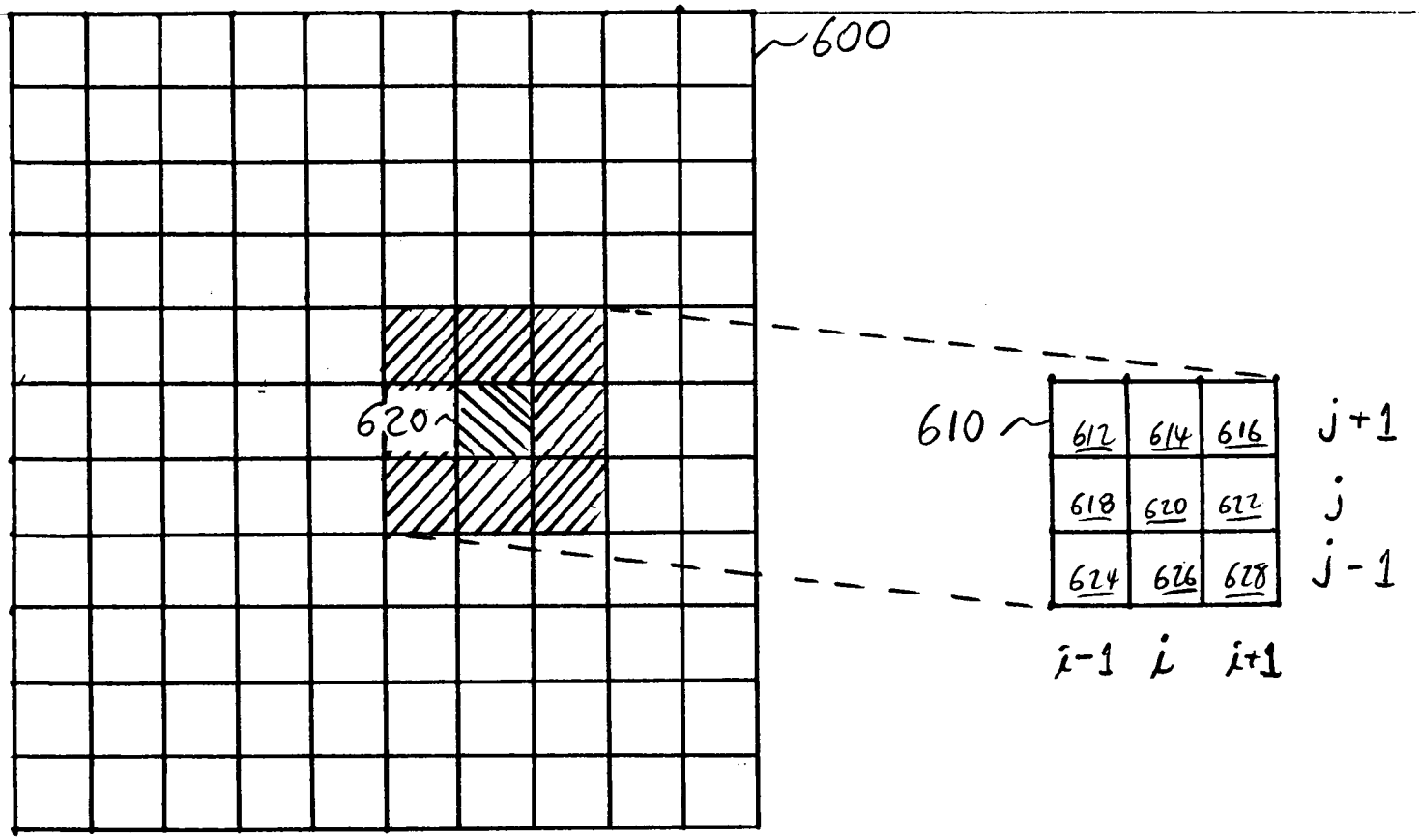



FIGURE 6

00826O" 5925960 AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

700

| | | |
|---|---|---|
| 1 | 0 | 0 |
| 0 | 2 | 0 |
| 0 | 0 | 1 |

$C_{kl}$

$C_{-1,1} = C_{1,-1} = 1$

$C_{0,0} = 2$

All other $C_{kl} = 0$

$$b_{ij} = \sum_{k=-1}^{1} \sum_{l=-1}^{1} a_{(i+k)(j+l)} C_{kl} =$$

$$= a_{(i-1)(j+1)} + a_{(i+1)(j-1)} + 2 a_{ij}$$

FIGURE 7A

750

| | | |
|---|---|---|
| 0 | 0 | 1 |
| 0 | 2 | 0 |
| 1 | 0 | 0 |

$C_{kl}$

$C_{-1,-1} = C_{1,1} = 1$

$C_{0,0} = 2$

All other $C_{kl} = 0$

$$b_{ij} = \sum_{k=-1}^{1} \sum_{l=-1}^{1} a_{(i+k)(j+l)} C_{kl} =$$

$$= a_{(i+1)(j+1)} + a_{(i-1)(j-1)} + 2 a_{ij}$$

FIGURE 7B

IMAGE SCANNED USING THE ASTRA 2400S

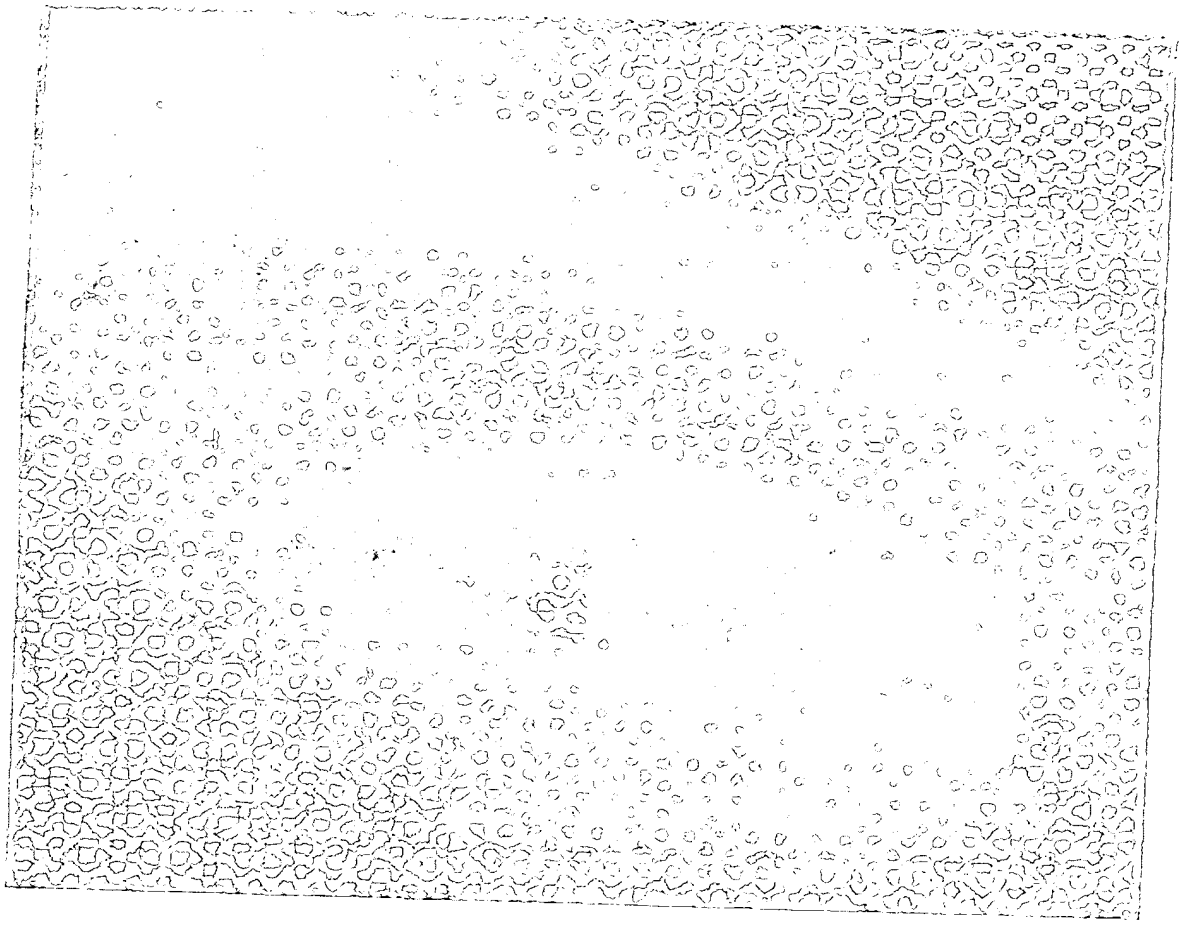


FIGURE 8

OUTPUT OF FIRST CONVOLUTION FILTER

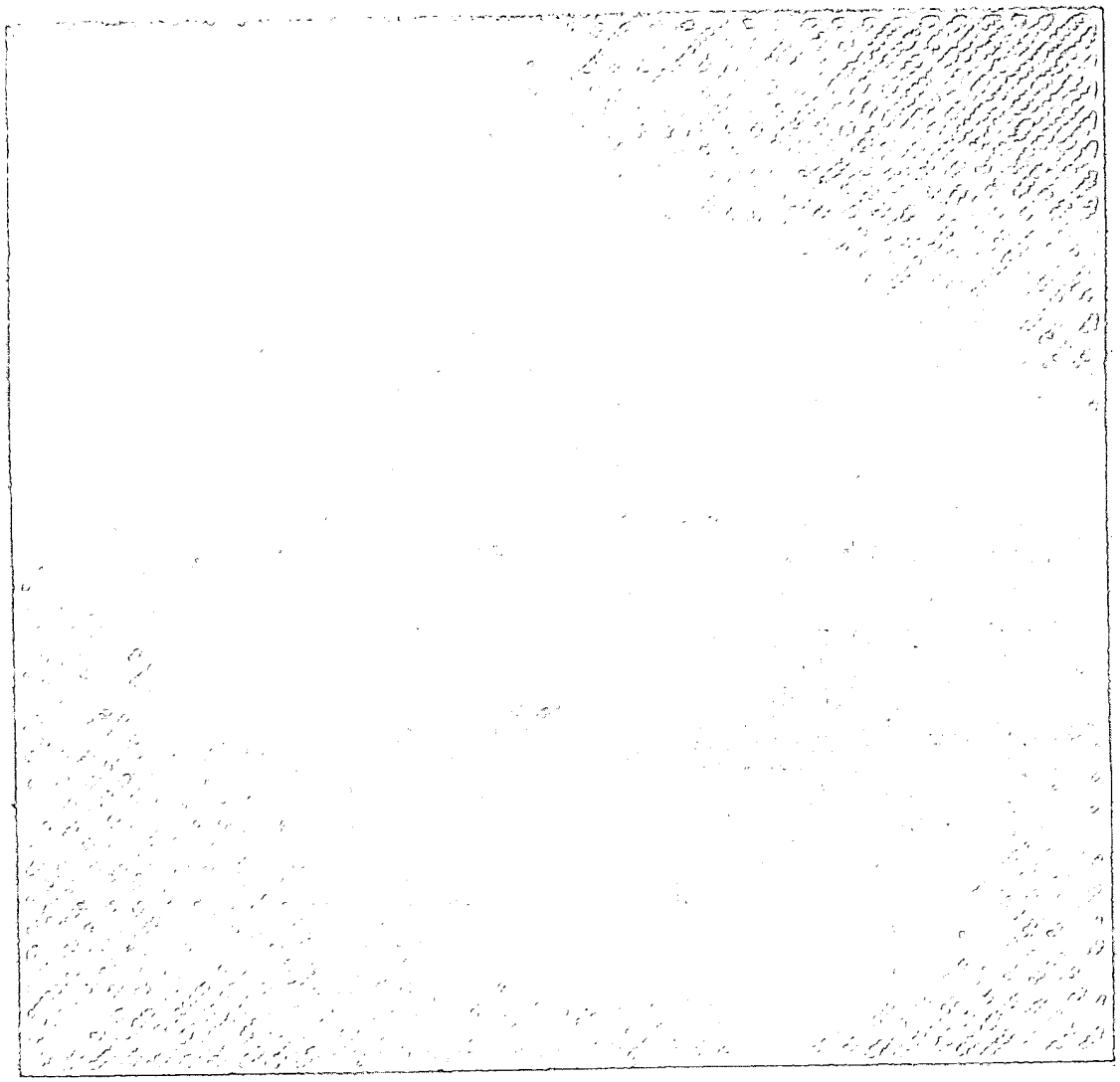
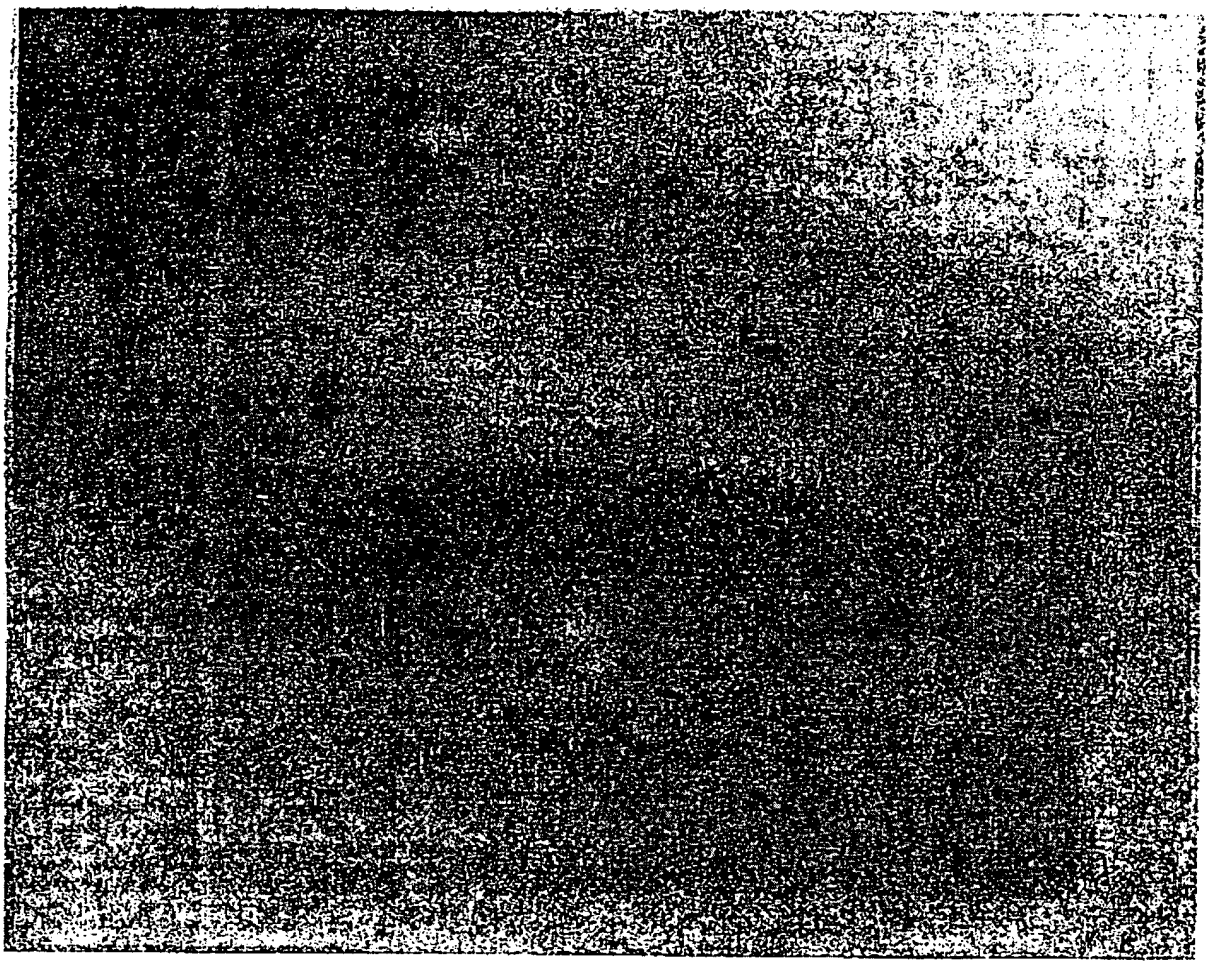


Figure 9

OUTPUT OF SECOND CONVOLUTION FILTER



D0B2B3B4 . 09260005

FIGURE 10

SCREEN CONVERSION FILTER FREQUENCY RESPONSE

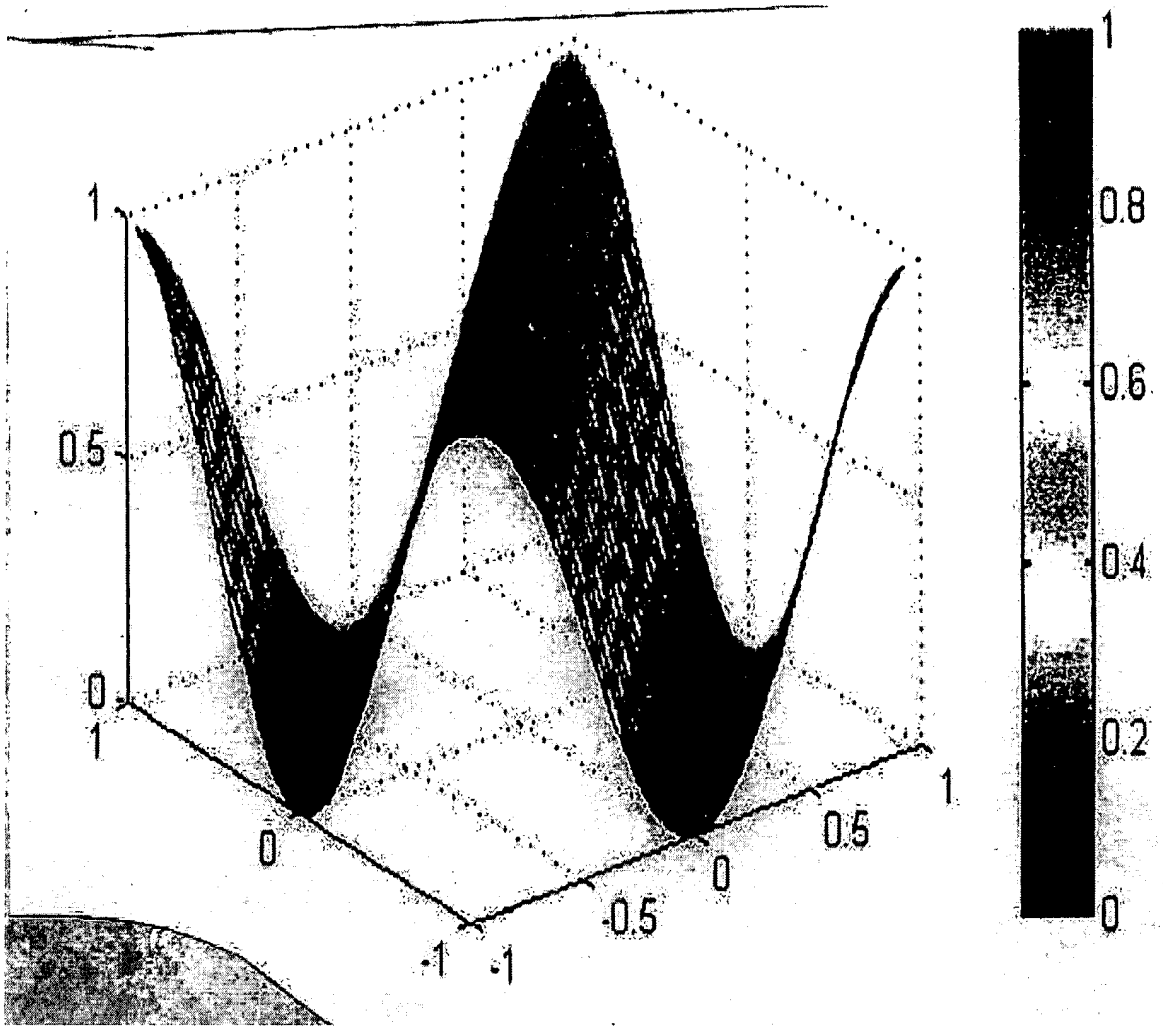



FIGURE 11

LINE SMOOTHING FILTER FREQUENCY RESPONSE

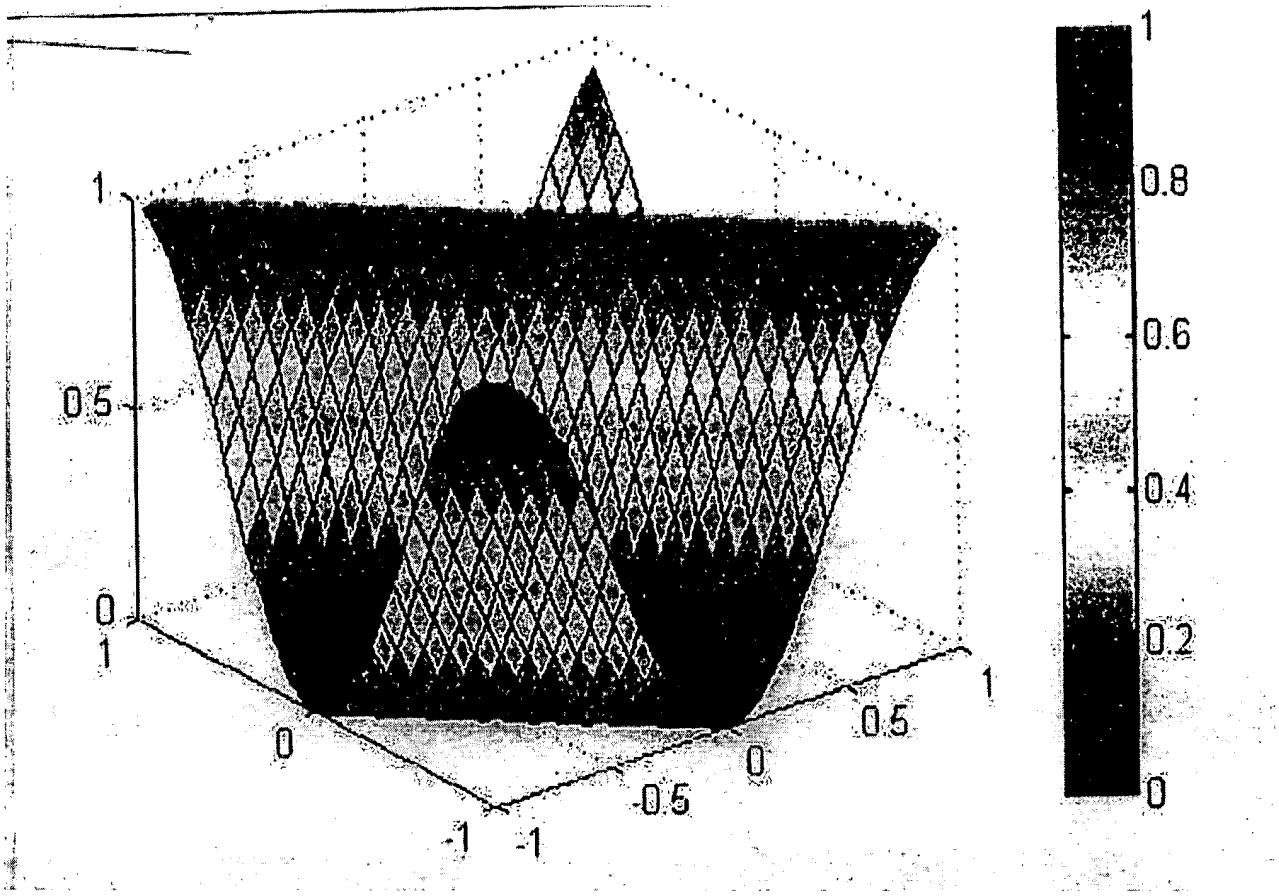



FIGURE 12

DESCRIPTION FILTER FREQUENCY RESPONSE

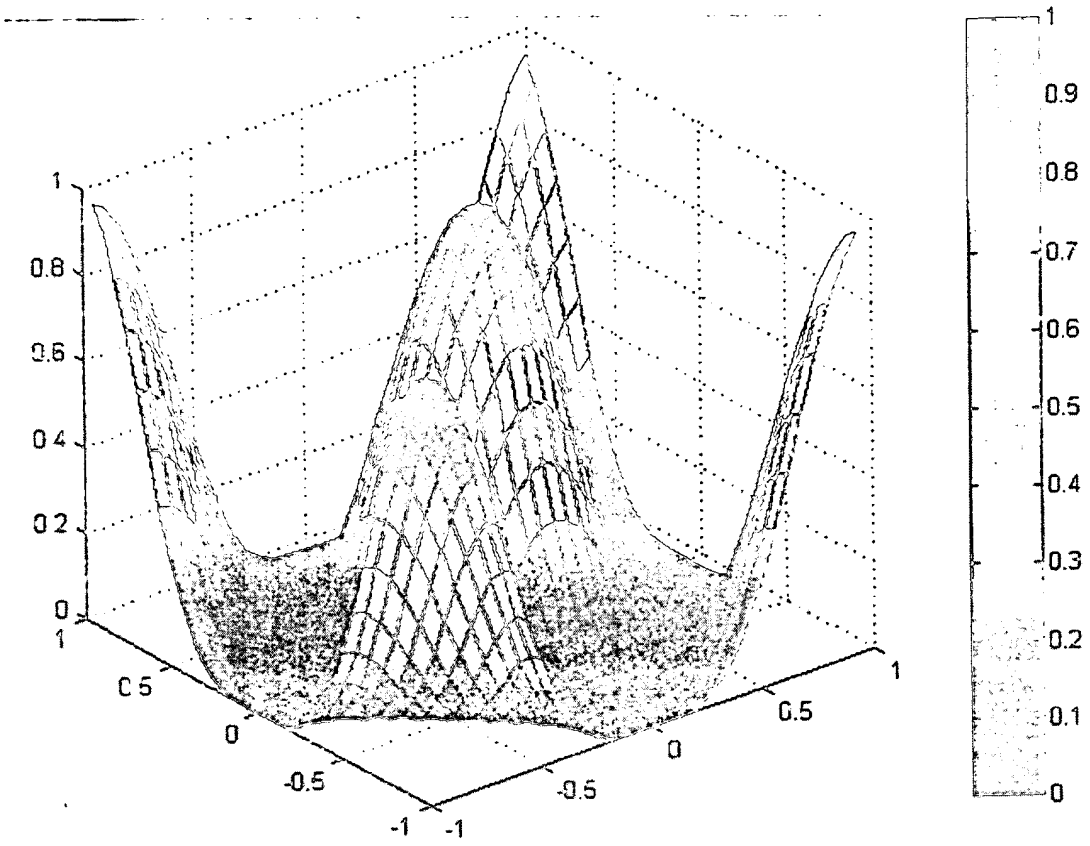



**FIGURE 13**

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